

VERSION DESCRIPTION DOCUMENT FOR THE NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS)

Release 4.0 Beta

NASA-NEMS-VDD-13

PrISMS Contract

February 1998



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

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NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS)
RELEASE 4.0 Beta**

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

February 1998

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1. INTRODUCTION

This Version Description Document (VDD) describes the changes and installation procedures for this release of the NASA Equipment Management System (NEMS). This section identifies the release, describes its purpose, defines its scope, and identifies its contact points.

1.1 IDENTIFICATION OF THE RELEASE

This software release is identified as NEMS, Release 4.0 Beta and has an effective release date of February 27, 1998.

1.2 PURPOSE OF THE RELEASE

This release implements modifications for the following Change Control Requests (CCRs):

<u>CCR</u>	<u>Title</u>
143	Changes to Accommodate the Year 2000

This release implements modifications necessitated by the following Discrepancy Reports (DRs):

<u>CCR</u>	<u>Title</u>
170	Report process is not handling X15 and X90 transactions correctly

1.3 SCOPE

This VDD provides the functional and technical user of NEMS with information regarding the contents, status, and structure of Release 4.0 Beta, including the following:

- Changes implemented since Release 3.9.1.
- Validation procedures to ensure the reliability of release changes.
- References to other documentation affected by this release.
- Detailed software installation instructions.

No waivers are associated with this release.

1.4 CONTACT POINTS

Sustaining Engineering for NEMS is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the function and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (Use following Key Words: SESAAS & NEMS)

Telephone: (205) 544-6673
Email: neal.cantrell@msfc.nasa.gov
FAX: (205) 544-1836

2. FUNCTIONAL INFORMATION

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1 FUNCTIONAL CHANGES

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, Installation Instructions, describes all Software PREDICT and SYSERR changes related to this release. Appendix E contains sample JCL that will be needed for release installation.

2.2 FUNCTIONAL INTERFACES

This release has a functional impact on the interface with the NASA Property Disposal System (NPDMS) application.

2.3 CRITICAL ISSUES

This section is not applicable for this release.

2.4 AFFECTED DOCUMENTS

The following documents are affected by this release:

Inventory Operations Guide

Inventory Users Guide

PCM Users Operations Guide

NEMS Users Guide

NEMS Operations Guide

These documents in their entirety will be available on the SESAAS webpage by the end of the April 1998. They can be printed, read, and downloaded using Adobe Acrobat (see the web page for instructions).

2.5 APPLICATION SYSTEM ADMINISTRATION

There are no application system administration changes associated with this release.

3. TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

NEMS release 4.0 must be installed at the same time as NPDMS release 2.0.

3.2 DATA DICTIONARY CHANGES

There are no data dictionary changes in this release.

3.3 SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Paragraph 2.1, for an inventory of Natural object types.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for NEMS Software Release 4.0 Beta for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of this release.

4. KNOWN AND OPEN PROBLEMS

There are no known or open problems related to this release.

Appendix A - ABBREVIATIONS AND ACRONYMS

CC	Consolidation Center
CCR	Change Control Request
CSC	Computer Sciences Corporation
DBA	Database Administrator
DR	Discrepancy Report
FAX	Electronic Facsimile Transmission
IRM	Information Resources Management
JCL	Job Control Language
MSFC	Marshall Space Flight Center
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
NEMS	NASA Equipment Management System
NPDM	NASA Property Disposal Management System
SESAAS	Sustaining Engineering Support for Agency wide Administrative Systems
VDD	Version Description Document

Appendix B - GLOSSARY

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

The process by which a NASA site installs a NASA software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of a NASA application release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with a NASA application.

Appendix C - FUNCTIONAL CHANGE VALIDATION PROCEDURES

Index of validation procedures for changes in this release.

Section	CCR	Title
1.0	143	Changes to Accommodate the Year 2000
2.0	170	Report process is not handling X15 and X90 transactions correctly

Details for the validation procedures follow:

1.0 CCR 143 Changes to accommodate the year 2000

Description of Change

Processes changed to expand date fields to contain the century on the database. Four fields were changed that required screen field lengths to be expanded (WRNTY-EXP-LABOR, WRNTY-EXP-MATERIAL, PEND-WRNTY-EXP-LABOR, and PEND-WRNTY-EXP-MATERIAL).

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Check all date fields using the current system date to make sure the system works with the current century.
Expected result: Dates should process correctly.
- Advance system date and check all date fields using the advanced system date to make sure the system works with the next century.
Expected result: Dates should process correctly.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>	<u>CCR#</u>
ADD1USER	Adds The First User In The NEMS-PCM AUTH File	Program	143
ADH900P1	NEMS Daily Transaction File Adhoc By ECN	Program	143
ADH910P1	Daily Transaction Dynamic Adhoc	Program	143
ADH910P2	Daily Transaction Dynamic Adhoc	Program	143
ADH910P4	Daily Transaction Dynamic Adhoc	Program	143
ADH920P1	Equipment File Adhoc By ECN	Program	143
ADH930P1	Equipment File Adhoc By Field	Program	143
ADH930P2	Equipment File Adhoc By Field	Program	143
ADH930P4	Equipment File Adhoc By Field	Program	143
ADH940P1	NEMS History File Adhoc ECN Selection	Program	143
ADH950P1	History File Adhoc By Field	Program	143
ADH950P2	History File Adhoc By Field	Program	143
ADH950P4	History File Adhoc By Field	Program	143
ADH960P1	NEMS Monthly Transaction File Adhoc By ECN	Program	143
ADH970P1	Monthly Transaction Adhoc By Field	Program	143
ADH970P2	Monthly Transaction Adhoc By Field	Program	143

ADH970P4	Monthly Transaction Adhoc By Field	Program	143
ADH980P1	NEMS Transfer File Adhoc By ECN	Program	143
ADH981P2	Transfer File Dynamic Adhoc	Program	143
ADH981P4	Transfer File Dynamic Adhoc	Program	143
ADH999P1	Dynamic Adhoc To Batch Report Record Create	Program	143
BARCODEC	Update Date fields on NEMS-BAR-CODE FILE	Program	143
DLYTRNC	Update Date fields on NEMS-DAILY-TRANS	Program	143
EQUIPMTC	Update Date fields on NEMS-EQUIPMENT	Program	143
GLOBTRNC	Update Date fields on NEMS-GLOBL-TRANS	Program	143
HISTORYC	Update Date fields on NEMS-HISTORY	Program	143
INV	Inventory Start Up Program	Program	143
INV000P1	Inventory Main Menu	Program	143
INVBBIP1	Bar Code Data Against Equipment File	Program	143
INVBBIP2	Bar Code Data Against Equipment File (Part 2)	Program	143
INVBBIP3	Bar Code Data Against Equipment File	Program	143
INVBBIP4	Location Bar Code Data Against Equipment File	Program	143
INVBBIP5	Bar Code Data Against Equipment File (Part 2)	Program	143
INVBBIP6	Bar Code Data Against Equipment File	Program	143
INVBBIS1	Bar Code Data Against Equipment File	Subprogram	143
INVBBIS4	Bar Code Data Against Equipment File	Subprogram	143
INVBCLP1	Close Inventory	Program	143
INVBIEP1	Close Inventory Account	Program	143
INVBIEP2	Close Inventory Account	Program	143
INVCLSP1	Schedule Inventory Cycle To Be Close	Program	143
INVNTRYC	Update Date fields on NEMS-INVENTORY	Program	143
INVOPNP1	Inventory Open/Close	Program	143
INVPBCP3	Uploaded Bar-Code Data Display	Program	143
INVPBCP6	Uploaded Bar-Code Data Display	Program	143
INVPBCP8	Inventory Upload	Program	143
INVPBCP9	Inventory Upload	Program	143
INVPRCP1	Inventory Process/Close	Program	143
INVPRCP2	Inventory Process/Close	Program	143
INVRSLP2	Report Distribution Menu Program	Program	143
INVSELP1	Inventory Select Menu	Program	143

INVSELP2	Inventory Select Menu	Program	143
INVSSTP2	Current Inventory Status Menu	Program	143
INVSSTP3	Inventory Main Account Status Menu	Program	143
INVSSTP5	Inventory History Menu	Program	143
INVSSTP6	Overage Items Display	Program	143
INVSSTP7	Underage Items Display	Program	143
INVSSTP8	Status Of A Custodian Account And Their Transactions	Program	143
INVSSTP9	Status Of A Transaction For Each Custodian	Program	143
INVSSTPA	Inventory History Sorted By Date Opened	Program	143
INVSSTPC	ECN Status	Program	143
INVSTATC	Update Date fields on NEMS-INV-STATUS	Program	143
INVSUBP1	Alter Scheduled Reports	Program	143
JCLCHKP1	JCL Generator, Utilities Control	Program	143
JCLGENP1	JCL Generator	Program	143
JCLGENP2	JCL Generator - Reports	Program	143
JCLGENP3	JCL Generator - Maintenance	Program	143
LOADMNTH	Copy NEMS-Month-Trans To NEMS-Cumm-Trans And Purge	Program	143
MNTCHGP1	Maintenance Cycle Update	Program	143
MNTHTRNC	Update Date fields on NEMS-MONTH-TRANS	Program	143
MNTLSTP1	List On-Line Regularly Scheduled Maintenance	Program	143
MNTSELP1	On-Request Maintenance Selection Menu Program	Program	143
MNTSUBP1	Alter Scheduled Maintenance	Program	143
MNUC00P1	Control Switch Analyzer	Program	143
MNUC01P1	Main Menu Program	Program	143
MSA002P1	Periodic Purge Of Historical File	Program	143
MSD001P1	Copy NEMS-Daily-Trans To NEMS-Month-Trans File	Program	143
MSD003P1	Daily Report Request File Reset	Program	143
MSD004P1	Daily Maintenance Request Reset	Program	143
MSD005P1	NEMS-1 Print Program	Program	143
MSD006P1	Items Transferred To Historical File	Program	143
MSD008P1	Daily Transaction Extract Program	Program	143
MSD008P5	Month To Date Extract Program	Program	143
MSD008P6	Month To Date Extract Program	Program	143
MSD008P8	Recompile Of Transferred Data	Program	143
MSD008P9	Recompile Of Transferred Data	Program	143
MSD010P1	User Signature Document Report	Program	143
MSDRECVR	Daily Transaction Extract Program	Program	143

MSM002P1	Copy NEMS-Month-Trans To NEMS-Cumm-Trans And Purge	Program	143
MSR001P1	Maint. Step To Close Inventory	Program	143
MSU001P1	Items Transferred To Headquarters	Program	143
MSX001P1	Copy NEMS-Cumm-Trans To NEMS-Prior-Month **Source code only**	Program	143
MSX005P1	NEMS-1 Print Program(Stand Alone)	Program	143
MSX006P1	NEMS-1 Print Program(Stand Alone)	Program	143
NELXFRPA	Reloads the NEMS Transfer File	Program	143
NEUXFRPA	Unloads the NEMS Transfer File	Program	143
NEMS	NEMS Start Program	Program	143
NEMS1	NEMS-1 Print Program	Program	143
NEMS1REQ	NEMS-1 Print Program	Program	143
PCM000L1	NEMS-Bar-Code-View	Local	143
PCM000L3	NEMS-Daily-Trans LDA	Local	143
PCM000L4	NEMS-Equipment LDA	Local	143
PCM000L5	NEMS-History-View	Local	143
PCM000L7	NEMS-PCM-Auth-View	Local	143
PCM000L8	NEMS-PCM-Pending LDA	Local	143
PCM000L9	NEMS-Reports LDA	Local	143
PCM000LB	NEMS-Equipment-View	Local	143
PCM000LC	NEMS-PCM-Pending-View	Local	143
PCM000LD	NEMS-Equipment-View	Local	143
PCM000LE	NEMS-History-View	Local	143
PCM000LZ	NEMS-PCM-Pending-View	Local	143
PCMAUTHC	Update Date fields on NEMS-PCM-AUTH	Program	143
PCMMAP	Welcome Screen For PCM	Map	143
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PRM020P1	Custodian Monthly Transaction Report Selection Menu	Program	143
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PRM131P1	Loaned (Out) Equipment Expiration Report Selection Menu	Program	143
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PRM133P1	Leased (Out) Equipment Return Candidate List Selection Menu	Program	143
PRM134P1	Borrowed Equipment Return Candidate List Selection Menu	Program	143
PRM138P1	Storage (In) Equipment Expiration Report Selection Menu	Program	143
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PRM320P1	Found On Station (FOS) Rate Report Selection Menu	Program	143
PRM330P1	Inventory Discrepancy Rate Report Selection Menu	Program	143
PRM752P1	Inventory Transaction Statistical Summary	Program	143
PRM810P1	DD1342 Selection Menu	Program	143
PRM830P1	NEMS-1 Selection Menu	Program	143
PRM830P1	NEMS-1 Selection Menu	Program	143
PRM830S1	NEMS-1 Submit 830 Report Subroutine	Program	143
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SSTIHSP5	Inventory History Status By Location	Program	143
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TRN060P3	Change Transaction 60 (NASA Held Equipment Data Change)	Program	143
TRN060P4	Change Transaction 60 (NASA Held Equipment Data Change)	Program	143
TRN061P1	Change Transaction 61 (Contractor Held Equipment Record Data Change)	Program	143
TRN062P1	Global Change	Program	143
TRN062P3	Qualifier Range Specification Program	Program	143
TRN062P4	Change Field Selection And Value Entry	Program	143
TRN062P5	Change Field Edit Program	Program	143
TRN062P6	Transaction 62 Display And Confirmation	Program	143
TRN062P8	Global Delete Field Input Program	Program	143
TRN062PB	Transaction 62 Batch Edit Update Program	Program	143
TRN062PC	Transaction 62 Batch Edit Update Program	Program	143
TRN062PD	Transaction 62 Batch Edit Update Program	Program	143
TRN062PF	Transaction 62 Batch End Of Update Program	Program	143
TRN062PG	Transaction 62 Global Delete Process	Program	143
TRN063P1	Change Transaction 63 (Reverse Add)	Program	143
TRN065P1	Delete Transaction 65 (Transfer To Another NASA Installation)	Program	143
TRN099P1	Change Transaction 99 (Change Local Data On History)	Program	143
TRNADDP1	Add Transaction Processor	Program	143
TRNC00P1	Pending File (Transaction) Update Menu	Program	143

TRNC26P1	Change Transaction 26 (Custodian Account Change)	Program	143
TRNC29P1	Change Transaction 29 (Equipment Location Change)	Program	143
TRNC30P1	Change Transaction 30 (Status Code Change)	Program	143
TRNC31P1	Change Transaction 31 (User Number Change)	Program	143
TRNC38M1		Map	143
TRNC38P1	Change Transaction 38 (Borrowed Out)	Program	143
TRNC39P1	Change Transaction 39 (Borrowed Out-Returned)	Program	143
TRNC40M1		Map	143
TRNC40P1	Change Transaction 40 (Loan/ Lease Out)	Program	143
TRNC41P1	Change Transaction 41 (Loaned/ Leased Out-Returned)	Program	143
TRNC42M1		Map	143
TRNC42P1	Change Transaction 42 (Loan Pool Out)	Program	143
TRNC43P1	Change Transaction 43 (Loan Pool Out-Returned)	Program	143
TRNC44P1	Change Transaction 44 (Storage-In)	Program	143
TRNC45P1	Change Transaction 45 (Storage In-Returned)	Program	143
TRNC50P1	Change Transaction 50 (Freeze Number Assignment)	Program	143
TRNC51P1	Change Transaction 51 (Freeze Number Removal)	Program	143
TRNC52M1		Map	143
TRNC52P1	Change Transaction 52 (Excess Equipment Turn-In By Custodian)	Program	143
TRNC56P	Change Transaction 56 (Repair Update Change)	Program	143
TRNC57P1	Change Transaction 57 (Off-Site For Repair)	Program	143
TRNC60M3		Map	143
TRNC60P1	Change Transaction 60 (NASA Held Equipment Data Change)	Program	143
TRNC60P2	Change Transaction 60 (NASA Held Equipment Data Change)	Program	143
TRNC60P3	Change Transaction 60 (NASA Held Equipment Data Change)	Program	143
TRNC65P1	Delete Transaction 65 (Transfer To Another NASA Installation)	Program	143
TRNC66P1	Delete Transaction 66 (Transfer To Other Government Agency)	Program	143

TRNC67P1	Delete Transaction 67 (Transfer Of GFE To A Contractor)	Program	143
TRNC69P1	Delete Transaction 69 (Lease In-Returned)	Program	143
TRNC70P1	Delete Transaction 70 (Loan In-Returned)	Program	143
TRNC71P1	Delete Transaction 71 (Survey - Missing Equipment)	Program	143
TRNC72P1	Delete Transaction 72 (Decontrol - Removal Of Tags)	Program	143
TRNC73P1	Delete Transaction 73 (Deletes Resulting From Assembly/Disassembly)	Program	143
TRNDELP1	Delete Transaction Processor	Program	143
TRNDTELA		Local	143
TRNDTELA	NEMS century addition	Local	143
TRNDTENA	NEMS Century Addition	Subprogram	143
TRNDTENA	NEMS century addition	Subprogram	143
TRNDTENB	NEMS Century Addition	Subprogram	143
TRNDTENB	NEMS century addition	Subprogram	143
TRNI04P1	Add Transaction I04 (Receipt By Transfer-From NASA Installation)	Program	143
TRNI06P1	Add Transaction I06 (Receipt By Transfer-From Contractor)	Program	143
TRNI08P1	Add Transaction I08 (Receipt From Lease In)	Program	143
TRNI09P1	Add Transaction I09 (Receipt From Loan In)	Program	143
TRNI10P1	Add Transaction I10 (Receipt From Fabrication)	Program	143
TRNI11P1	Add Transaction I11 (Receipt From Assembly/Disassembly)	Program	143
TRNI12P1	Add Transaction I12 (Receipt From Found On Station)	Program	143
TRNI13P1	Add Transaction I13 (Receipt From Excess)	Program	143
TRNI14P2	Transaction I14 Processing Program	Program	143
TRNI14P3	Transaction I14 Processing Program	Program	143
TRNI15P1	Add Transaction I15 (Receipt From	Program	143
TRNI20P1	Add Transaction I20 (Receipt From Borrow In)	Program	143
TRNI21P1	Add Transaction 21 (Receipt - Lease To Purchase)	Program	143
TRNI26P1	Change Transaction I26 (Custodian Account Change)	Program	143
TRNI29P1	Change Transaction I29 (Equipment Location Change)	Program	143

TRNI32P1	Update Inventory No Change To Equipment File I32	Program	143
TRNI33P1	Contractor - Transfer Requested I33	Program	143
TRNI34P1	Update Inventory No Change To Equipment File I34	Program	143
TRNI38P1	Change Transaction I38 (Borrowed Out)	Program	143
TRNI39P1	Change Transaction I39 (Borrowed Out-Returned)	Program	143
TRNI40P1	Change Transaction I40 (Loan/Lease Out)	Program	143
TRNI41P1	Change Transaction I41 (Loan/Lease Out-Returned)	Program	143
TRNI42P1	Change Transaction I42 (Loan Pool Out)	Program	143
TRNI43P1	Change Transaction I43 (Loan Pool Out-Returned)	Program	143
TRNI44P1	Change Transaction I44 (Storage In)	Program	143
TRNI45P1	Change Transaction I45 (Storage In- Returned)	Program	143
TRNI52P1	Change Transaction I52 (Excess Equipment Turn-In By Custodian)	Program	143
TRNI56P1	Change Transaction I56 (Repair Update Change)	Program	143
TRNI57P1	Change Transaction I57 (Off-Site For Repair)	Program	143
TRNI65P1	Delete Transaction I65	Program	143
TRNIADP1	Add Transaction Processor	Program	143
TRNIDL1	Delete Transaction Processor	Program	143
TRNUPDM1		Map	143
TRNUPDM2		Map	143
TRNUPDM3		Map	143
TRNUPDM4		Map	143
TRNUPDM5		Map	143
TRNUPDM7		Map	143
TRNUPDP1	NEMS Update Transaction From The Pending File	Program	143
TRNUPDP4	Do Not Process The Pending Transaction	Program	143
TRNUPDP6	Add Daily Transaction Record	Program	143
TRNUPDP7	Add History Record	Program	143
TRNUPDP8	Update Equipment File Fields	Program	143
TRNUPDPA	Determine New Values For Date-Inventoried	Program	143
TRNUPDS1	NEMSPCM Display Equipment And Pending File	Subprogram	143

TRNUPDS2	NEMSPCM Display Equipment And Pending File	Subprogram	143
TRNWRNS1	Basic Inventory Status Check	Subprogram	143
TRNWRNS2	Inventory Status Check	Subprogram	143
TRNWRNS4	Inventory Date Change	Subprogram	143

2.0 CCR 170 Report process is not handling X15 and X90 transactions correctly.

Description of Change

An edit was added to correct the problem.

Functional Impact

There is no functional impact as a result of this CCR.

Validation Procedures

- Enter transaction I34 to clear inventory discrepancy with local data
Expected result: Screen will now allow exit from local data without data entered.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>	<u>CCR#</u>
RPT410P1	1324 - Controlled Equipment Report	Program	170

Appendix D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NEMS SOFTWARE RELEASE 4.0 BETA

Introduction

Release information:

System Name: NEMS
Release Number: 4.0 Beta
Release Date: February 27, 1998
Effective Date: Immediately

In case of installation problems, contact the NASA Automated Data Processing (ADP) Consolidation Center (NACC) Technical Services Center (Use following Key Words: SESAAS & NEMS)

Telephone: (205) 544-6673
Email: neal.cantrell@msfc.nasa.gov
FAX: (205) 544-1836

The following datasets are located on the NASA Central Distribution Facility as NASA data sets.

- AIMS.NEMS.BETA.REL400.REL0298.SRC
- AIMS.NEMS.BETA.REL400.REL0298.PRD
- AIMS.NEMS.BETA.REL400.REL0298.DOC

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in section 9.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source/Object Code
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
- 8.0 Local JCL Mods
- 9.0 Installation Checklist

1.0 Back Up Existing Data

It is advisable to back up all NEMS files as a precautionary measure prior to installation.

2.0 Copy Source/Object Code

2.1 Copy Source Code

- A. Source code is installed in three separate libraries. Source code for programs modified in this release version were unloaded in the NATUNLD format, these programs all have specific destination libraries as shown below. All the NEMS programs have a destination of NEMS; NEMSINV programs have a destination of NEMSINV and NEMSPCM have a destination of NEMSPCM.

1. Load the NEMS source library from dataset:

AIMS.NEMS.BETA.REL400.REL0298.SRC.

The source programs were unloaded using the Natural utility NATUNLD.

The NEMS programs:

1.ADH900P1	Program
2.ADH910P1	Program
3.ADH910P2	Program
4.ADH910P4	Program
5.ADH920P1	Program
6.ADH930P1	Program
7.ADH930P2	Program
8.ADH930P4	Program
9.ADH940P1	Program
10.ADH950P1	Program
11.ADH950P2	Program
12.ADH950P4	Program
13.ADH960P1	Program
14.ADH970P1	Program
15.ADH970P2	Program
16.ADH970P4	Program
17.ADH980P1	Program
18.ADH981P2	Program
19.ADH981P4	Program
20.ADH999P1	Program
21.BARCODE	Program
22.DLYTRNC	Program
23.EQUIPMT	Program
24.GLOBTRN	Program
25.HISTORYC	Program
26.INVBBIP1	Program
27.INVBBIP2	Program

28.INVBBIP3	Program
29.INVBBIP4	Program
30.INVBBIP5	Program
31.INVBBIP6	Program
32.INVBBIS1	Subprogram
33.INVBBIS4	Subprogram
34.INVBCLP1	Program
35.INVBIEP1	Program
36.INVBIEP2	Program
37.INVNTRYC	Program
38.INVSTATC	Program
39.JCLCHKP1	Program
40.JCLGENP1	Program
41.JCLGENP2	Program
42.JCLGENP3	Program
43.LOADMNTH	Program
44.MNTCHGP1	Program
45.MNTHTRNC	Program
46.MNTLSTP1	Program
47.MNTSELP1	Program
48.MNTSUBP1	Program
49.MSA002P1	Program
50.MSD001P1	Program
51.MSD003P1	Program
52.MSD004P1	Program
53.MSD005P1	Program
54.MSD006P1	Program
55.MSD008P1	Program
56.MSD008P5	Program
57.MSD008P6	Program
58.MSD008P8	Program
59.MSD008P9	Program
60.MSD010P1	Program
61.MSDRECVR	Program
62.MSM002P1	Program
63.MSR001P1	Program
64.MSU001P1	Program
65.MSX001P1	Program
66.MSX005P1	Program
67.MSX006P1	Program
68.NELXFRPA	Program
69.NEMS	Program
70.NEMS1	Program
71.NEMS1REQ	Program
72.NEUXFRPA	Program
73.PCM000L3	Local

74.PCM000L4	Local
75.PCM000L8	Local
76.PCM000L9	Local
77.PCMAUTHC	Program
78.PCMPENDC	Program
79.PRM020P1	Program
80.PRM130P1	Program
81.PRM131P1	Program
82.PRM132P1	Program
83.PRM133P1	Program
84.PRM134P1	Program
85.PRM138P1	Program
86.PRM170P1	Program
87.PRM171P1	Program
88.PRM310P1	Program
89.PRM320P1	Program
90.PRM330P1	Program
91.PRM810P1	Program
92.PRM830P1	Program
93.PRM831P1	Program
94.REPORTSC	Program
95.RPT010P1	Program
96.RPT011P1	Program
97.RPT012P1	Program
98.RPT013P1	Program
99.RPT020P1	Program
100.RPT110P1	Program
101.RPT120P1	Program
102.RPT130P1	Program
103.RPT131P1	Program
104.RPT132P1	Program
105.RPT133P1	Program
106.RPT134P1	Program
107.RPT135P1	Program
108.RPT137P1	Program
109.RPT138P1	Program
110.RPT140P1	Program
111.RPT141P1	Program
112.RPT166P1	Program
113.RPT170P1	Program
114.RPT171P1	Program
115.RPT194P1	Program
116.RPT195P1	Program
117.RPT196P1	Program
118.RPT197P1	Program
119.RPT240P1	Program

120.RPT245P1	Program
121.RPT246P1	Program
122.RPT310P1	Program
123.RPT320P1	Program
124.RPT330P1	Program
125.RPT350P1	Program
126.RPT360P1	Program
127.RPT410P1	Program
128.RPT500P1	Program
129.RPT501P1	Program
130.RPT752P1	Program
131.RPT760P1	Program
132.RPT760P2	Program
133.RPT761P1	Program
134.RPT761P2	Program
135.RPT762P1	Program
136.RPT762P2	Program
137.RPT763P1	Program
138.RPT763P2	Program
139.RPT766P1	Program
140.RPT766P2	Program
141.RPT767P1	Program
142.RPT767P2	Program
143.RPT768P1	Program
144.RPT769P1	Program
145.RPT769P2	Program
146.RPT770P1	Program
147.RPT771P1	Program
148.RPT771P2	Program
149.RPT780P1	Program
150.RPT810P1	Program
151.RPT830P1	Program
152.RPT831P1	Program
153.RPT900P1	Program
154.RPT961P1	Program
155.RPT962P1	Program
156.RPTCHGP1	Program
157.RPTLSTP1	Program
158.RPTSELP2	Program
159.RPTSUBP1	Program
160.TRANSFRC	Program
161.TRN000P1	Program
162.TRN001P1	Program
163.TRN002P1	Program
164.TRN003P1	Program
165.TRN004P1	Program

166.TRN005P1	Program
167.TRN006P1	Program
168.TRN007P1	Program
169.TRN008P1	Program
170.TRN009P1	Program
171.TRN010P1	Program
172.TRN011P1	Program
173.TRN012P1	Program
174.TRN013P1	Program
175.TRN014P2	Program
176.TRN015P1	Program
177.TRN016P1	Program
178.TRN017P1	Program
179.TRN018P1	Program
180.TRN020P1	Program
181.TRN021P1	Program
182.TRN021P2	Program
183.TRN025P1	Program
184.TRN026P1	Program
185.TRN027P1	Program
186.TRN028P1	Program
187.TRN029P1	Program
188.TRN030P1	Program
189.TRN031P1	Program
190.TRN038P1	Program
191.TRN039P1	Program
192.TRN040P1	Program
193.TRN041P1	Program
194.TRN042P1	Program
195.TRN043P1	Program
196.TRN044P1	Program
197.TRN045P1	Program
198.TRN046P1	Program
199.TRN050P1	Program
200.TRN051P1	Program
201.TRN052P1	Program
202.TRN053P1	Program
203.TRN054P1	Program
204.TRN056P1	Program
205.TRN057P1	Program
206.TRN060P1	Program
207.TRN060P2	Program
208.TRN060P3	Program
209.TRN060P4	Program
210.TRN061P1	Program
211.TRN062P1	Program

212.TRN062P3	Program
213.TRN062P4	Program
214.TRN062P5	Program
215.TRN062P6	Program
216.TRN062P8	Program
217.TRN062PB	Program
218.TRN062PC	Program
219.TRN062PD	Program
220.TRN062PF	Program
221.TRN062PG	Program
222.TRN063P1	Program
223.TRN065P1	Program
224.TRN099P1	Program
225.TRNADDP1	Program
226.TRNDELP1	Program
227.TRNDTENA	Subprogram
228.TRNDTENB	Subprogram

will be loaded to the application library NEMS, replacing any existing programs of the same name.

2. Load the NEMSINV source library from dataset:

AIMS.NEMS.BETA.REL400.REL0298.SRC.

The source programs were unloaded using the Natural utility NATUNLD. The NEMSINV programs:

1.INV	Program
2.INV000P1	Program
3.INVCLSP1	Program
4.INVOPNP1	Program
5.INVPBCP3	Program
6.INVPBCP6	Program
7.INVPBCP8	Program
8.INVPBCP9	Program
9.INVPRCP1	Program
10.INVPRCP2	Program
11.INVRSLP2	Program
12.INVSELP1	Program
13.INVSELP2	Program
14.INVSSTP2	Program
15.INVSSTP3	Program
16.INVSSTP5	Program
17.INVSSTP6	Program
18.INVSSTP7	Program
19.INVSSTP8	Program
20.INVSSTP9	Program

21.INVSSTPA	Program
22.INVSSTPC	Program
23.INVSUBP1	Program
24.PRM752P1	Program
25.SSTCISP1	Program
26.SSTCISP2	Program
27.SSTECNP1	Program
28.SSTIHSP1	Program
29.SSTIHSP2	Program
30.SSTIHSP3	Program
31.SSTIHSP4	Program
32.SSTIHSP5	Program
33.SSTIHSP6	Program
34.SSTTSCP1	Program
35.SSTTSCP2	Program
36.SSTTSTP1	Program
37.SSTUIDP1	Program
38.SSTUIDP2	Program
39.TRNDTENA	Subprogram
40.TRNDTENB	Subprogram
41.TRNI04P1	Program
42.TRNI06P1	Program
43.TRNI08P1	Program
44.TRNI09P1	Program
45.TRNI10P1	Program
46.TRNI11P1	Program
47.TRNI12P1	Program
48.TRNI13P1	Program
49.TRNI14P2	Program
50.TRNI14P3	Program
51.TRNI15P1	Program
52.TRNI20P1	Program
53.TRNI21P1	Program
54.TRNI26P1	Program
55.TRNI29P1	Program
56.TRNI32P1	Program
57.TRNI33P1	Program
58.TRNI34P1	Program
59.TRNI38P1	Program
60.TRNI39P1	Program
61.TRNI40P1	Program
62.TRNI41P1	Program
63.TRNI42P1	Program
64.TRNI43P1	Program
65.TRNI44P1	Program
66.TRNI45P1	Program

32.SGN003M2	Map
33.SGN003M3	Map
34.SGN003M4	Map
35.SGN003M5	Map
36.SGN003P1	Program
37.SGN003P2	Program
38.SGN004M5	Map
39.SGN004P1	Program
40.SGN004P5	Program
41.SGN005M6	Map
42.SGN005P1	Program
43.SGN005P2	Program
44.SGN005P6	Program
45.SGNC00S1	Subroutine
46.SGNC00S2	Subroutine
47.TBLC00P1	Program
48.TBLC69P1	Program
49.TBLC69P4	Program
50.TRNC00P1	Program
51.TRNC26P1	Program
52.TRNC29P1	Program
53.TRNC30P1	Program
54.TRNC31P1	Program
55.TRNC38M1	Map
56.TRNC38P1	Program
57.TRNC39P1	Program
58.TRNC40M1	Map
59.TRNC40P1	Program
60.TRNC41P1	Program
61.TRNC42M1	Map
62.TRNC42P1	Program
63.TRNC43P1	Program
64.TRNC44P1	Program
65.TRNC45P1	Program
66.TRNC50P1	Program
67.TRNC51P1	Program
68.TRNC52M1	Map
69.TRNC52P1	Program
70.TRNC56P1	Program
71.TRNC57P1	Program
72.TRNC60M3	Map
73.TRNC60P1	Program
74.TRNC60P2	Program
75.TRNC60P3	Program
76.TRNC65P1	Program
77.TRNC66P1	Program

78.TRNC67P1	Program
79.TRNC69P1	Program
80.TRNC70P1	Program
81.TRNC71P1	Program
82.TRNC72P1	Program
83.TRNC73P1	Program
84.TRNDTELA	Local
85.TRNDTENA	Subprogram
86.TRNDTENB	Subprogram
87.TRNUPDM1	Map
88.TRNUPDM2	Map
89.TRNUPDM3	Map
90.TRNUPDM4	Map
91.TRNUPDM5	Map
92.TRNUPDM7	Map
93.TRNUPDP1	Program
94.TRNUPDP4	Subprogram
95.TRNUPDP6	Subprogram
96.TRNUPDP7	Subprogram
97.TRNUPDP8	Subprogram
98.TRNUPDPA	Subprogram
99.TRNUPDS1	Subprogram
100.TRNUPDS2	Subprogram
101.TRNWRNS1	Subroutine
102.TRNWRNS2	Subroutine
103.TRNWRNS4	Subprogram

will be loaded to the application library NEMSPCM, replacing any existing programs of the same name.

The source module counts included in this release are listed below:

Natural Source Modules by Type	Count
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	17
MAPS	22
HELP ROUTINES	0
SUBROUTINES	5
SUBPROGRAMS	16
PROGRAMS	343
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	403

2.2 List of Source Code Modifications

The following are the modules added, and modified.

Added Modules:

BARCODEC	Update Date fields on NEMS-BAR-CODE FILE
DLYTRNC	Update Date fields on NEMS-DAILY-TRANS
EQUIPMTC	Update Date fields on NEMS-EQUIPMENT
GLOBTRNC	Update Date fields on NEMS-GLOBL-TRANS
HISTORYC	Update Date fields on NEMS-HISTORY
INVNTRYC	Update Date fields on NEMS-INVENTORY
INVSTATC	Update Date fields on NEMS-INV-STATUS
MNTHTRNC	Update Date fields on NEMS-MONTH-TRANS
NELXFRPA	Reloads the NEMS-TRANSFER FILE
NEUXFRPA	Unloads the NEMS-TRANSFER FILE
PCMAUTHC	Update Date fields on NEMS-PCM-AUTH
PCMPENDC	Update Date fields on NEMS-PCM-PENDING
REPORTSC	Update Date fields on NEMS-REPORTS
TRANSFRC	Update Date fields on NEMS-TRANSFER
TRNDTELA	NEMS century addition LDA
TRNDTENA	NEMS century addition
TRNDTENB	NEMS century addition

Modified Modules:

ADD1USER	
ADH900P1	NEMS DAILY TRANSACTION FILE ADHOC BY ECN
ADH910P1	DAILY TRANSACTION DYNAMIC ADHOC
ADH910P2	DAILY TRANSACTION DYNAMIC ADHOC
ADH910P4	DAILY TRANSACTION DYNAMIC ADHOC
ADH920P1	EQUIPMENT FILE ADHOC BY ECN
ADH930P1	EQUIPMENT FILE ADHOC BY FIELD
ADH930P2	EQUIPMENT FILE ADHOC BY FIELD
ADH930P4	EQUIPMENT FILE ADHOC BY FIELD
ADH940P1	NEMS HISTORY FILE ADHOC ECN SELECTION
ADH950P1	HISTORY FILE ADHOC BY FIELD
ADH950P2	HISTORY FILE ADHOC BY FIELD
ADH950P4	HISTORY FILE ADHOC BY FIELD
ADH960P1	NEMS MONTHLY TRANSACTION FILE ADHOC BY ECN
ADH970P1	MONTHLY TRANSACTION ADHOC BY FIELD
ADH970P2	MONTHLY TRANSACTION ADHOC BY FIELD
ADH970P4	MONTHLY TRANSACTION ADHOC BY FIELD
ADH980P1	NEMS TRANSFER FILE ADHOC BY ECN
ADH981P2	TRANSFER FILE DYNAMIC ADHOC
ADH981P4	TRANSFER FILE DYNAMIC ADHOC
ADH999P1	DYNAMIC ADHOC TO BATCH REPORT RECORD CREATE
INV	

INV000P1	INVENTORY MAIN MENU
INVBBIP1	BAR CODE DATA AGAINST EQUIPMENT FILE
INVBBIP2	BAR CODE DATA AGAINST EQUIPMENT FILE (PART 2)
INVBBIP3	BAR CODE DATA AGAINST EQUIPMENT FILE
INVBBIP4	LOCATION BAR CODE DATA AGAINST EQUIPMENT FILE
INVBBIP5	BAR CODE DATA AGAINST EQUIPMENT FILE (PART 2)
INVBBIP6	BAR CODE DATA AGAINST EQUIPMENT FILE
INVBBIS1	BAR CODE DATA AGAINST EQUIPMENT FILE
INVBBIS4	BAR CODE DATA AGAINST EQUIPMENT FILE
INVBCLP1	CLOSE INVENTORY
INVBIEP1	CLOSE INVENTORY ACCOUNT
INVBIEP2	CLOSE INVENTORY ACCOUNT
INVCLSP1	SCHEDULE INVENTORY CYCLE TO BE CLOSE
INVOPNP1	INVENTORY OPEN/CLOSE
INVPBCP3	UPLOADED BAR-CODE DATA DISPLAY
INVPBCP6	UPLOADED BAR-CODE DATA DISPLAY
INVPBCP8	INVENTORY UPLOAD
INVPBCP9	INVENTORY UPLOAD
INVPRCP1	INVENTORY PROCESS/CLOSE
INVPRCP2	INVENTORY PROCESS/CLOSE
INVRSLP2	REPORT DISTRIBUTION MENU PROGRAM
INVSELP1	INVENTORY SELECT MENU
INVSELP2	INVENTORY SELECT MENU
INVSSTP2	CURRENT INVENTORY STATUS MENU
INVSSTP3	INVENTORY MAIN ACCOUNT STATUS MENU
INVSSTP5	INVENTORY HISTORY MENU
INVSSTP6	OVERAGE ITEMS DISPLAY
INVSSTP7	UNDERAGE ITEMS DISPLAY
INVSSTP8	STATUS OF A CUSTODIAN ACCOUNT AND THEIR
INVSSTP9	STATUS OF A TRANSACTION FOR EACH CUSTODIAN
INVSSTPA	INVENTORY HISTORY SORTED BY DATE OPENED
INVSSTPC	ECN STATUS
INVSUBP1	ALTER SCHEDULED REPORTS
JCLCHKP1	JCL GENERATOR, UTILITIES CONTROL
JCLGENP1	JCL GENERATOR
JCLGENP2	JCL GENERATOR - REPORTS
JCLGENP3	JCL GENERATOR - MAINTENANCE
LOADMNTN	COPY NEMS-MONTH-TRANS TO NEMS-CUMM-TRANS AND PURGE
MNTCHGP1	MAINTENANCE CYCLE UPDATE
MNTLSTP1	LIST ON-LINE REGULARLY SCHEDULED MAINTENANCE
MNTSELP1	ON-REQUEST MAINTENANCE SELECTION MENU PROGRAM
MNTSUBP1	ALTER SCHEDULED MAINTENANCE
MNUC00P1	CONTROL SWITCH ANALYZER
MNUC01P1	MAIN MENU PROGRAM
MSA002P1	PERIODIC PURGE OF HISTORICAL FILE

MSD001P1	COPY NEMS-DAILY-TRANS TO NEMS-MONTH-TRANS FILE
MSD003P1	DAILY REPORT REQUEST FILE RESET
MSD004P1	DAILY MAINTENANCE REQUEST RESET
MSD005P1	NEMS-1 PRINT PROGRAM
MSD006P1	ITEMS TRANSFERRED TO HISTORICAL FILE
MSD008P1	DAILY TRANSACTION EXTRACT PROGRAM
MSD008P5	MONTH TO DATE EXTRACT PROGRAM
MSD008P6	MONTH TO DATE EXTRACT PROGRAM
MSD008P8	RECOMPILE OF TRANSFERRED DATA
MSD008P9	RECOMPILE OF TRANSFERRED DATA
MSD010P1	USER SIGNATURE DOCUMENT REPORT
MSDRECVR	DAILY TRANSACTION EXTRACT PROGRAM
MSM002P1	COPY NEMS-MONTH-TRANS TO NEMS-CUMM-TRANS AND PURGE
MSR001P1	MAINT. STEP TO CLOSE INVENTORY
MSU001P1	ITEMS TRANSFERRED TO HEADQUARTERS
MSX001P1	COPY NEMS-CUMM-TRANS TO NEMS-PRIOR-MONTH **Source code only**
MSX005P1	NEMS-1 PRINT PROGRAM (STAND ALONE)
MSX006P1	NEMS-1 PRINT PROGRAM (STAND ALONE)
NEMS	NEMS START PROGRAM
NEMS1	NEMS-1 PRINT PROGRAM
NEMS1REQ	NEMS-1 PRINT PROGRAM
PCM000L1	NEMS-BAR-CODE-VIEW
PCM000L3	NEMS-DAILY-TRANS LDA
PCM000L4	NEMS-EQUIPMENT LDA
PCM000L5	NEMS-HISTORY-VIEW
PCM000L7	NEMS-PCM-AUTH-VIEW
PCM000L8	NEMS-PCM-PENDING LDA
PCM000L9	NEMS-REPORTS LDA
PCM000LB	NEMS-EQUIPMENT-VIEW
PCM000LC	NEMS-PCM-PENDING-VIEW
PCM000LD	NEMS-EQUIPMENT-VIEW
PCM000LE	NEMS-HISTORY-VIEW
PCM000LZ	NEMS-PCM-PENDING-VIEW PREVIOUSLY MEETING CRITERIA FOR TAGGING)
PCMMAP	WELCOME SCREEN FOR PCM
PRM020M1	
PRM020P1	CUSTODIAN MONTHLY TRANSACTION REPORT SELECTION MENU
PRM130P1	LOANED (IN) EQUIPMENT EXPIRATION REPORT SELECTION MENU
PRM131P1	LOANED (OUT) EQUIPMENT EXPIRATION REPORT SELECTION MENU
PRM132P1	LEASED (IN) EQUIPMENT RETURN CANDIDATE LIST SELECTION MENU

PRM133P1	LEASED (OUT) EQUIPMENT RETURN CANDIDATE LIST SELECTION MENU
PRM134P1	BORROWED EQUIPMENT RETURN CANDIDATE LIST SELECTION MENU
PRM138P1	STORAGE (IN) EQUIPMENT EXPIRATION REPORT SELECTION MENU
PRM170M1	
PRM170P1	ITEMS FOUND ON STATION REPORT SELECTION MENU
PRM171P1	ITEMS SURVEYED REPORT SELECTION MENU
PRM310P1	EQUIPMENT LOSS RATE REPORT SELECTION MENU
PRM320P1	FOUND ON STATION (FOS) RATE REPORT SELECTION MENU
PRM330P1	INVENTORY DISPREPANCY RATE REPORT SELECTION MENU
PRM752P1	INVENTORY TRANSACTION STATISTICAL SUMMARY
PRM810P1	DD1342 SELECTION MENU
PRM830P1	NEMS-1 SELECTION MENU
PRM830S1	NEMS-1 SUBMIT 830 REPORT SUBROUTINE
PRM831P1	NEMS-1 SELECTION MENU
RPT010P1	DAILY TRANSACTION REGISTER (BY TRANS NO)
RPT011P1	DAILY TRANSACTION REGISTER (BY TRANS NO EXPLODED)
RPT012P1	DAILY TRANSACTION REGISTER (BY ECN)
RPT013P1	DAILY TRANSACTION REGISTER (BY ENTRY REF NO)
RPT020P1	CUSTODIAN MONTHLY TRANSACTION REPORT
RPT110P1	MANUFACTURER'S CODE XXXXX SUSPENSE REPORT
RPT120P1	PROPERTY LOCATION REPORT
RPT130P1	LOANED (IN) EQUIPMENT EXPIRATION REPORT
RPT131P1	LOANED (OUT) EQUIPMENT EXPIRATION REPORT
RPT132P1	LEASED (IN) EQUIPMENT RETURN CANDIDATE LIST
RPT133P1	LEASED (OUT) EQUIPMENT RETURN CANDIDATE LIST
RPT134P1	BORROWED EQUIPMENT RETURN CANDIDATE LIST
RPT135P1	DD FOR 1342 RETURN CANDIDATE LIST (FOR GFE)
RPT137P1	OFF-SITE FOR REPAIR REPORT
RPT138P1	STORAGE (IN) EQUIPMENT EXPIRATION REPORT
RPT140P1	CUSTODIAN ACCOUNT PROPERTY REPORT
RPT141P1	CUSTODIAN ACCOUNT PROPERTY REPORT
RPT166P1	ITEMS IN STATUS CODE "C" FOR 120 DAYS OR MORE
RPT170P1	ITEMS FOUND ON STATION
RPT171P1	ITEMS SURVEYED
RPT194P1	IDLE EQUIPMENT REPORT
RPT195P1	IDLE EQUIPMENT REPORT
RPT196P1	IDLE EQUIPMENT REPORT
RPT197P1	IDLE EQUIPMENT REPORT BY ECN
RPT240P1	PENDING TRANSACTION REPORT
RPT245P1	AWAITING CUSTODIAN APPROVAL REPORT

RPT246P1	AWAITING MANAGER'S APPROVAL REPORT
RPT310P1	EQUIPMENT LOSS RATE
RPT320P1	FOUND ON STATION RATE
RPT330P1	INVENTORY DISCREPANCY RATE REPORT
RPT350P1	BORROW OUT GREATER THAN ONE YEAR REPORT
RPT360P1	ITEMS FROZEN LONGER THAN 30 DAYS
RPT410P1	1324 - CONTROLLED EQUIPMENT REPORT
RPT500P1	ECN DETAIL ITEM REPORT
RPT501P1	ECN DETAIL ITEM REPORT
RPT752P1	YEARLY INVENTORY TRANSACTION STATISTICAL SUMMARY
RPT760P1	CUSTODIAN ACCOUNT MISSING ITEMS REPORT
RPT760P2	LOCATION MISSING ITEMS REPORT
RPT761P1	CUSTODIAN ACCOUNT OVERAGE ITEMS REPORT
RPT761P2	GRID LOCATION OVERAGE ITEMS REPORT
RPT762P1	INVENTORY LOCATION CHANGE REPORT
RPT762P2	INVENTORY LOCATION CHANGE REPORT
RPT763P1	INVENTORY MATCHED ITEMS REPORT
RPT763P2	INVENTORY MATCHED ITEMS REPORT
RPT766P1	POST INVENTORY CUSTODIAN ACCOUNT PROPERTY REPORT
RPT766P2	POST INVENTORY LOCATION PROPERTY REPORT
RPT767P1	INVENTORY HISTORY REPORT
RPT767P2	INVENTORY HISTORY REPORT
RPT768P1	INVENTORY DAILY TRANSACTION REGISTER
RPT769P1	INVENTORY LOCATION NOT CHANGED REPORT
RPT769P2	INVENTORY LOCATION NOT CHANGED REPORT
RPT770P1	TRIENNIAL INVENTORY CLOSE REPORT
RPT771P1	CUSTODIAN ACCOUNT RECORDS NOT INVENTORIED REPORT
RPT771P2	CUSTODIAN ACCOUNT RECORDS NOT INVENTORIED REPORT
RPT780P1	LOANED OUT EQUIPMENT VERIFICATION LIST
RPT810P1	1342 BATCH REQUEST
RPT830P1	NEMS-1 PRINT PROGRAM
RPT831P1	NEMS-1 PRINT PROGRAM
RPT900P1	ITEMS HELD IN STORAGE LIST
RPT961P1	ACQ DOC CNTL NO REPORT
RPT962P1	ECN PO REPORT
RPTCHGP1	REPORT CYCLE UPDATE
RPTLSTP1	LIST ON-LINE REGULARLY SCHEDULED REPORTS
RPTSELM2	
RPTSELP2	REPORT DISTRIBUTION MENU PROGRAM
RPTSUBP1	ALTER SCHEDULED REPORTS
SGN000P1	ELECTRONIC SIGNATURE MAIN MENU
SGN001P1	CHANGE SIGNATURE

SGN003M1	
SGN003M2	
SGN003M3	
SGN003M4	
SGN003M5	
SGN003P1	PENDING FILE FOR GAINING CUSTODIAN
SGN003P2	PENDING FILE FOR MANAGER
SGN004M5	
SGN004P1	PENDING FILE BY CUSTODIAN (FOR MANAGERS)
SGN004P5	PENDING FILE BY CUSTODIAN (FOR MANAGERS)
SGN005M6	
SGN005P1	PENDING TRANSACTIONS BY CUSTODIAN
SGN005P2	REJECTED PENDING TRANSACTIONS BY CUSTODIAN
SGN005P6	PENDING TRANSACTIONS BY CUSTODIAN
SGNC00S1	SIGNATURE PROCESSING ROUTINE
SGNC00S2	SIGNATURE PROCESSING ROUTINE
SSTCISP1	CURRENT INVENTORY STATUS MENU
SSTCISP2	CURRENT INVENTORY STATUS MENU
SSTECNP1	ECN STATUS
SSTIHSP1	INVENTORY HISTORY SELECTION MENU
SSTIHSP2	INVENTORY HISTORY STATUS BY CUST ACCT
SSTIHSP3	INVENTORY HISTORY STATUS BY DATE
SSTIHSP4	INVENTORY HISTORY SELECTION MENU
SSTIHSP5	INVENTORY HISTORY STATUS BY LOCATION
SSTIHSP6	INVENTORY HISTORY STATUS BY DATE
SSTTSCP1	STATUS OF A CUSTODIAN ACCOUNT AND THEIR
SSTTSCP2	STATUS OF A LOCATION AND THEIR TRANSACTIONS
SSTTSTP1	STATUS OF A TRANSACTION FOR EACH CUSTODIAN
SSTUIDP1	UNDERAGE ITEMS DISPLAY
SSTUIDP2	UNDERAGE ITEMS DISPLAY
TBLC00P1	TABLE FILE UPDATE MENU
TBLC69P1	PCM USER AUTHORITY TABLE UPDATE
TBLC69P4	SWAP ACTIVE AND ADDITIONAL CUSTODIAN ACCOUNT
TRN000P1	EQUIPMENT FILE (TRANSACTION) UPDATE MENU
TRN001P1	ADD TRANSACTION 01 (RECEIPT BY PURCHASE- NASA FUNDED)
TRN002P1	ADD TRANSACTION 02 (RECEIPT BY PURCHASE- OGA FUNDED)
TRN003P1	ADD TRANSACTION 03 (RECEIPT BY PURCHASE- REPORTED BY CONTRACTOR)
TRN004P1	ADD TRANSACTION 04 (RECEIPT BY TRANSFER- FROM NASA INSTALLATION)
TRN005P1	ADD TRANSACTION 05 (RECEIPT BY TRANSFER- FROM OGA)
TRN006P1	ADD TRANSACTION 06 (RECEIPT BY TRANSFER- FROM CONTRACTOR)

TRN007P1	ADD TRANSACTION 07 (RECEIPT BY TRANSFER- REPORTED BY CONTRACTOR)
TRN008P1	ADD TRANSACTION 08 (RECEIPT FROM LEASE IN)
TRN009P1	ADD TRANSACTION 09 (RECEIPT FROM LOAN IN)
TRN010P1	ADD TRANSACTION 10 (RECEIPT FROM FABRICATION)
TRN011P1	ADD TRANSACTION 11 (RECEIPT FROM ASSMEBLY/ DISASSEMBLY)
TRN012P1	ADD TRANSACTION 12 (RECEIPT FROM FOUND ON
STATION)	
TRN013P1	ADD TRANSACTION 13 (RECEIPT FROM EXCESS)
TRN014P2	TRANSACTION 14 PROCESSING PROGRAM
TRN015P1	ADD TRANSACTION 15 (RECEIPT FROM RETURN OF RECORD FROM HISTORICAL FILE)
TRN016P1	ADD TRANSACTION 16 (RECEIPT BY TRANSFER FROM REAL TO PERSONAL PROPERTY)
TRN017P1	ADD TRANSACTION 17 (RECEIPT FROM NON- GOVERNMENT SOURCE)
TRN018P1	ADD TRANSACTION 18 (RECEIPT FROM NOT PREVIOUSLY MEETING CRITERIA FOR TAGGING)
TRN020P1	ADD TRANSACTION 20 (RECEIPT FROM BORROW IN)
TRN021P1	ADD TRANSACTION 21 (RECEIPT - LEASE TO PURCHASE)
TRN021P2	TRANSACTION 21 PROCESSING PROGRAM
TRN025P1	CHANGE TRANSACTION 25 (COST CHANGE)
TRN026P1	CHANGE TRANSACTION 26 (CUSTODIAN ACCOUNT CHANGE)
TRN027P1	CHANGE TRANSACTION 27 (DATE AVAILABLE CHANGE)
TRN028P1	CHANGE TRANSACTION 28 (DATE LEASE/LOAN/BORROW OUT DUE CHANGE)
TRN029P1	CHANGE TRANSACTION 29 (EQUIPMENT LOCATION CHANGE)
TRN030P1	CHANGE TRANSACTION 30 (STATUS CODE CHANGE)
TRN031P1	CHANGE TRANSACTION 31 (USER NUMBER CHANGE)
TRN038P1	CHANGE TRANSACTION 38 (BORROWED OUT)
TRN039P1	CHANGE TRANSACTION 39 (BORROWED OUT-RETURNED)
TRN040P1	CHANGE TRANSACTION 40 (LOAN/LEASE OUT)
TRN041P1	CHANGE TRANSACTION 41 (LOAN/LEASE OUT-RETURNED)
TRN042P1	CHANGE TRANSACTION 42 (LOAN POOL OUT)
TRN043P1	CHANGE TRANSACTION 43 (LOAN POOL OUT-RETURNED)
TRN044P1	CHANGE TRANSACTION 44 (STORAGE IN)
TRN045P1	CHANGE TRANSACTION 45 (STORAGE IN-RETURNED)
TRN046P1	CHANGE TRANSACTION 46 (CAP/SENS CODE AND NSN CHANGE)
TRN050P1	CHANGE TRANSACTION 50 (FREEZE NUMBER ASSIGNMENT)
TRN051P1	CHANGE TRANSACTION 51 (FREEZE NUMBER REMOVAL)
TRN052P1	CHANGE TRANSACTION 52 (EXCESS EQUIPMENT TURN-

	IN BY CUSTODIAN)
TRN053P1	CHANGE TRANSACTION 53 (EXCESS EQUIPMENT TURN- IN BY CONTRACTOR)
TRN054P1	CHANGE TRANSACTION 54 (CALIBRATION UPDATE CHANGE)
TRN056P1	CHANGE TRANSACTION 56 (REPAIR UPDATE CHANGE)
TRN057P1	CHANGE TRANSACTION 57 (OFF-SITE FOR REPAIR)
TRN060P1	CHANGE TRANSACTION 60 (NASA HELD EQUIPMENT DATA CHANGE)
TRN060P2	CHANGE TRANSACTION 60 (NASA HELD EQUIPMENT DATA CHANGE)
TRN060P3	CHANGE TRANSACTION 60 (NASA HELD EQUIPMENT DATA CHANGE)
TRN060P4	CHANGE TRANSACTION 60 (NASA HELD EQUIPMENT DATA CHANGE)
TRN061P1	CHANGE TRANSACTION 61 (CONTRACTOR HELD EQUIPMENT RECORD DATA CHANGE)
TRN062P1	GLOBAL CHANGE
TRN062P3	QUALIFIER RANGE SPECIFICATION PROGRAM
TRN062P4	CHANGE FIELD SELECTION AND VALUE ENTRY
TRN062P5	CHANGE FIELD EDIT PROGRAM
TRN062P6	TRANSACTION 62 DISPLAY AND CONFIRMATION
TRN062P8	GLOBAL DELETE FIELD INPUT PROGRAM
TRN062PB	TRANSACTION 62 BATCH EDIT UPDATE PROGRAM
TRN062PC	TRANSACTION 62 BATCH EDIT UPDATE PROGRAM
TRN062PD	TRANSACTION 62 BATCH EDIT UPDATE PROGRAM
TRN062PF	TRANSACTION 62 BATCH END OF UPDATE PROGRAM
TRN062PG	TRANSACTION 62 GLOBAL DELETE PROCESS
TRN063P1	CHANGE TRANSACTION 63 (REVERSE ADD)
TRN065P1	DELETE TRANSACTION 65 (TRANSFER TO ANOTHER NASA INSTALLATION)
TRN099P1	CHANGE TRANSACTION 99 (CHANGE LOCAL DATA ON HISTORY)
TRNADDP1	ADD TRANSACTION PROCESSOR
TRNC00P1	PENDING FILE (TRANSACTION) UPDATE MENU
TRNC26P1	CHANGE TRANSACTION 26 (CUSTODIAN ACCOUNT CHANGE)
TRNC29P1	CHANGE TRANSACTION 29 (EQUIPMENT LOCATION CHANGE)
TRNC30P1	CHANGE TRANSACTION 30 (STATUS CODE CHANGE)
TRNC31P1	CHANGE TRANSACTION 31 (USER NUMBER CHANGE)
TRNC38M1	
TRNC38P1	CHANGE TRANSACTION 38 (BORROWED OUT)
TRNC39P1	CHANGE TRANSACTION 39 (BORROWED OUT- RETURNED)
TRNC40M1	

TRNC40P1	CHANGE TRANSACTION 40 (LOAN/LEASE OUT)
TRNC41P1	CHANGE TRANSACTION 41 (LOANED/LEASED OUT-RETURNED)
TRNC42M1	
TRNC42P1	CHANGE TRANSACTION 42 (LOAN POOL OUT)
TRNC43P1	CHANGE TRANSACTION 43 (LOAN POOL OUT-RETURNED)
TRNC44P1	CHANGE TRANSACTION 44 (STORAGE IN)
TRNC45P1	CHANGE TRANSACTION 45 (STORAGE IN-RETURNED)
TRNC50P1	CHANGE TRANSACTION 50 (FREEZE NUMBER ASSIGNMENT)
TRNC51P1	CHANGE TRANSACTION 51 (FREEZE NUMBER REMOVAL)
TRNC52M1	
TRNC52P1	CHANGE TRANSACTION 52 (EXCESS EQUIPMENT TURN-IN BY CUSTODIAN)
TRNC56P1	CHANGE TRANSACTION 56 (REPAIR UPDATE CHANGE)
TRNC57P1	CHANGE TRANSACTION 57 (OFF-SITE FOR REPAIR)
TRNC60M3	
TRNC60P1	CHANGE TRANSACTION 60 (NASA HELD EQUIPMENT DATA CHANGE)
TRNC60P2	CHANGE TRANSACTION 60 (NASA HELD EQUIPMENT DATA CHANGE)
TRNC60P3	CHANGE TRANSACTION 60 (NASA HELD EQUIPMENT DATA CHANGE)
TRNC65P1	DELETE TRANSACTION 65 (TRANSFER TO ANOTHER NASA INSTALLATION)
TRNC66P1	DELETE TRANSACTION 66 (TRANSFER TO OTHER GOVERNMENT AGENCY)
TRNC67P1	DELETE TRANSACTION 67 (TRANSFER OF GFE TO A CONTRACTOR)
TRNC69P1	DELETE TRANSACTION 69 (LEASE IN-RETURNED)
TRNC70P1	DELETE TRANSACTION 70 (LOAN IN-RETURNED)
TRNC71P1	DELETE TRANSACTION 71 (SURVEY - MISSING EQUIPMENT)
TRNC72P1	DELETE TRANSACTION 72 (DECONTROL - REMOVAL OF TAGS)
TRNC73P1	DELETE TRANSACTION 73 (DELETES RESULTING FROM ASSEMBLY/DISASSEMBLY)
TRNDELP1	DELETE TRANSACTION PROCESSOR
TRNI04P1	ADD TRANSACTION I04 (RECEIPT BY TRANSFER-FROM NASA INSTALLATION)
TRNI06P1	ADD TRANSACTION I06 (RECEIPT BY TRANSFER-FROM CONTRACTOR)
TRNI08P1	ADD TRANSACTION I08 (RECEIPT FROM LEASE IN)
TRNI09P1	ADD TRANSACTION I09 (RECEIPT FROM LOAN IN)
TRNI10P1	ADD TRANSACTION I10 (RECEIPT FROM FABRICATION)
TRNI11P1	ADD TRANSACTION I11 (RECEIPT FROM ASSEMBLY/

	DISASSEMBLY)
TRNI12P1	ADD TRANSACTION I12 (RECEIPT FROM FOUND ON STATION)
TRNI13P1	ADD TRANSACTION I13 (RECEIPT FROM EXCESS)
TRNI14P2	TRANSACTION I14 PROCESSING PROGRAM
TRNI14P3	TRANSACTION I14 PROCESSING PROGRAM
TRNI15P1	ADD TRANSACTION I15 (RECEIPT FROM RETURN OF RECORD FROM HISTORICAL FILE)
TRNI20P1	ADD TRANSACTION I20 (RECEIPT FROM BORROW IN)
TRNI21P1	ADD TRANSACTION 21 (RECEIPT - LEASE TO PURCHASE)
TRNI26P1	CHANGE TRANSACTION I26 (CUSTODIAN ACCOUNT CHANGE)
TRNI29P1	CHANGE TRANSACTION I29 (EQUIPMENT LOCATION CHANGE)
TRNI32P1	UPDATE INVENTORY NO CHANGE TO EQUIPMENT FILE I32
TRNI33P1	CONTRACTOR - TRANSFER REQUESETED I33
TRNI34P1	UPDATE INVENTORY NO CHANGE TO EQUIPMENT FILE I34
TRNI38P1	CHANGE TRANSACTION I38 (BORROWED OUT)
TRNI39P1	CHANGE TRANSACTION I39 (BORROWED OUT-RETURNED)
TRNI40P1	CHANGE TRANSACTION I40 (LOAN/LEASE OUT)
TRNI41P1	CHANGE TRANSACTION I41 (LOAN/LEASE OUT-RETURNED)
TRNI42P1	CHANGE TRANSACTION I42 (LOAN POOL OUT)
TRNI43P1	CHANGE TRANSACTION I43 (LOON POOL OUT-RETURNED)
TRNI44P1	CHANGE TRANSACTION I44 (STORAGE IN)
TRNI45P1	CHANGE TRANSACTION I45 (STORAGE IN-RETURNED)
TRNI52P1	CHANGE TRANSACTION I52 (EXCESS EQUIPMENT TURN-IN BY CUSTODIAN)
TRNI56P1	CHANGE TRANSACTION I56 (REPAIR UPDATE CHANGE)
TRNI57P1	CHANGE TRANSACTION I57 (OFF-SITE FOR REPAIR)
TRNI65P1	DELETE TRANSACTION I65
TRNIADP1	ADD TRANSACTION PROCESSOR
TRNIDL1P1	DELETE TRANSACTION PROCESSOR
TRNUPDM1	
TRNUPDM2	
TRNUPDM3	
TRNUPDM4	
TRNUPDM5	
TRNUPDM7	
TRNUPDP1	NEMS UPDATE TRANSACTION FROM THE PENDING FILE
TRNUPDP4	DO NOT PROCESS THE PENDING TRANSACTION
TRNUPDP6	ADD DAILY TRANSACTION RECORD
TRNUPDP7	ADD HISTORY RECORD
TRNUPDP8	UPDATE EQUIPMENT FILE FIELDS
TRNUPDPA	DETERMINE NEW VALUES FOR DATE-INVENTORIED
TRNUPDS1	NEMSPCM DISPLAY EQUIPMENT AND PENDING FILE
TRNUPDS2	NEMSPCM DISPLAY EQUIPMENT AND PENDING FILE

TRNWRNS1	BASIC INVENTORY STATUS CHECK SUBPROGRAM
TRNWRNS2	INVENTORY STATUS CHECK SUBPROGRAM
TRNWRNS4	INVENTORY Date Change SUBPROGRAM

2.3 Copy Object Modules

Not applicable with this release.

3.0 Pre-Predict Data Conversion

Catalog NEUXFRPA in the NEMS library and then run NEUXFRPA in batch to unload the NEMS-TRANSFER file to a work file (CMWKF01). See Appendix E for Sample JCL.

4.0 Install Predict

4.1 Data Dictionary Changes

Use SYSDICBE to load the PREDICT modifications from the dataset AIMS.NEMS.BETA.REL400.REL0298.PRD. This release will include the new enhancements for version 4.0.0 (Y2K). Details for changes in this release can be found under paragraph 4.1.3 Physical File Changes or by performing Predict reporting on the keywords NEMS-4.0.0 or Y2K-NEMS.

DDMs should be generated for the following NEMS files after the PREDICT load is complete.

NEMS-BAR-CODE
NEMS-DAILY-TRANS
NEMS-EQUIPMENT
NEMS-HISTORY
NEMS-INV-STATUS
NEMS-INVENTORY
NEMS-MONTH-TRANS
NEMS-PCM-AUTH
NEMS-PCM-PENDING
NEMS-REPORTS
NEMS-TRANSFER

4.1.1 Inventory of Objects

The object types and inventory listed below represent a comprehensive count of the Predict object modules for this release.

PREDICT Objects by Type:

Keyword	-	2
ADABAS Files and Views	-	11
Data Elements	-	870

4.1.2 Storage Considerations

Not applicable with this release.

4.1.3 Physical File Changes

Use the ADABAS Utility commands listed below to build the JCL for file changes. The ADADBS control statements can be cut from the VDD and pasted into the TSO ISPF editor. Include the six (6) spaces before the command in the "CUT" and position the cursor in the first position of the ISPF sequence numbers, for the "PASTE". Call RICK BISHOP (205)544-5352 with any questions or problems.

Increase the length for the following fields:

NEMS-BAR-CODE		File # 185							
Ty	L	Field name	F	Length	Occ	D	U	DB	S
*-	-	-----	*	-----	-----	*	*	--	*
	1	BAR-DATE-INVENTORIED	N	8.0		D		AY	

Using the following command to change the field length:

```
ADADBS CHANGE FILE=185,FIELD=AY,LENGTH=8
```

NEMS-INV-STATUS		File # 191							
Ty	L	Field name	F	Length	Occ	D	U	DB	S
*-	-	-----	*	-----	-----	*	*	--	*
	1	STA-DATE-INVENTORIED	N	8.0		D		AW	

Using the following command to change the field length:

```
ADADBS CHANGE FILE=191,FIELD=AW,LENGTH=8
```

NEMS-INVENTORY		File # 192							
Ty	L	Field name	F	Length	Occ	D	U	DB	S
*-	-	-----	*	-----	-----	*	*	--	*
	1	INV-DATE-INVENTORIED	N	8.0		D		BL	

Using the following command to change the field length:

```

ADADBS CHANGE FILE=192, FIELD=BL, LENGTH=8
NEMS-DAILY-TRANS
File # 187
Ty L Field name F Length Occ D U DB S
*- - - - - *- - - - -
1 YEAR-MFG A 4.0 AG
1 DATE-NASA-ACQ U 8.0 AM
1 DATE-INST-ACQ U 8.0 AO
1 DATE-INVENTORIED U 8.0 BC N
1 DATE-AVAILABLE U 8.0 BE N
1 DATE-LAST-CALIBRATED U 8.0 BK N
1 DATE-CALIBRATION-DUE U 8.0 BL N
1 DATE-WRNTY-EXP-MATERIAL U 6.0 BM N
1 DATE-WRNTY-EXP-LABOR U 6.0 BN N
1 DATE-L-L-B-IN-DUE U 8.0 BS N
1 DATE-LOANED-OUT U 8.0 BT N
1 DATE-LEASED-OUT U 8.0 BU N
1 DATE-SHIPPED-OTHER-INST U 8.0 BV N
1 DATE-BORROWED-OUT U 8.0 BW N
1 DATE-STORAGE-DUE U 8.0 BX N
1 DATE-L-L-B-OUT-DUE U 8.0 CA N
1 DATE-REPAIR-RETURN-DUE U 8.0 HD N
1 DATE-LAST-SERV U 8.0 CN N
1 CURRENT-DATE N 8.0 DB N

```

Using the following command to change the field length:

```

ADADBS CHANGE FILE=187, FIELD=AG, LENGTH=4
ADADBS CHANGE FILE=187, FIELD=AM, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=AO, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=BC, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=BE, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=BK, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=BL, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=BM, LENGTH=6
ADADBS CHANGE FILE=187, FIELD=BN, LENGTH=6
ADADBS CHANGE FILE=187, FIELD=BS, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=BT, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=BU, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=BV, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=BW, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=BX, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=CA, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=HD, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=CN, LENGTH=8
ADADBS CHANGE FILE=187, FIELD=DB, LENGTH=8

```

NEMS-EQUIPMENT

File # 188

Ty	L	Field name	F	Length	Occ	D	U	DB	S
*-	-	-----	*-	-----	-----	* *	-	-	*
1		YEAR-MFG	A	4.0				AG	
1		DATE-STATUS-CODED	U	8.0				AL	N
1		DATE-NASA-ACQ	U	8.0		D		AM	
1		DATE-INST-ACQ	U	8.0		D		AO	
1		DATE-INVENTORIED	U	8.0		D		BC	N
1		DATE-AVAILABLE	U	8.0		D		BE	N
1		DATE-LAST-CALIBRATED	U	8.0				BK	N
1		DATE-CALIBRATION-DUE	U	8.0		D		BL	N
1		DATE-WRNTY-EXP-MATERIAL	U	6.0				BM	N
1		DATE-WRNTY-EXP-LABOR	U	6.0				BN	N
1		DATE-L-L-B-IN-DUE	U	8.0				BS	N
1		DATE-LOANED-OUT	U	8.0		D		BT	N
1		DATE-LEASED-OUT	U	8.0				BU	N
1		DATE-SHIPPED-OTHER-INST	U	8.0				BV	N
1		DATE-BORROWED-OUT	U	8.0		D		BW	N
1		DATE-STORAGE-DUE	U	8.0				BX	N
1		DATE-STORED-IN	U	8.0		D		BZ	N
1		DATE-L-L-B-OUT-DUE	U	8.0		D		CA	N
1		DATE-REPAIR-RETURN-DUE	U	8.0		D		HD	N
1		DATE-LAST-SERV	U	8.0				CN	N

Using the following command to change the field length:

```

ADADBS CHANGE FILE=188, FIELD=AG, LENGTH=4
ADADBS CHANGE FILE=188, FIELD=AL, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=AM, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=AO, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BC, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BE, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BK, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BL, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BM, LENGTH=6
ADADBS CHANGE FILE=188, FIELD=BN, LENGTH=6
ADADBS CHANGE FILE=188, FIELD=BS, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BT, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BU, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BV, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BW, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BX, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=BZ, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=CA, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=HD, LENGTH=8
ADADBS CHANGE FILE=188, FIELD=CN, LENGTH=8

```

NEMS-HISTORY

				File # 190						
Ty	L	Field name	F	Length	Occ	D	U	DB	S	
*	-	-----	*	-----	-----	*	*	--	*	
1		YEAR-MFG	A	4.0		D		AG		
1		DATE-STATUS-CODED	U	8.0				AL	N	
1		DATE-NASA-ACQ	U	8.0				AM		
1		DATE-INST-ACQ	U	8.0				AO		
1		DATE-INVENTORIED	U	8.0		D		BC	N	
1		DATE-AVAILABLE	U	8.0				BE	N	
1		DATE-LAST-CALIBRATED	U	8.0				BK	N	
1		DATE-CALIBRATION-DUE	U	8.0				BL	N	
1		DATE-WRNTY-EXP-MATERIAL	U	6.0				BM	N	
1		DATE-WRNTY-EXP-LABOR	U	6.0				BN	N	
1		DATE-L-L-B-IN-DUE	U	8.0				BS	N	
1		DATE-LOANED-OUT	U	8.0				BT	N	
1		DATE-LEASED-OUT	U	8.0				BU	N	
1		DATE-SHIPPED-OTHER-INST	U	8.0				BV	N	
1		DATE-BORROWED-OUT	U	8.0				BW	N	
1		DATE-STORAGE-DUE	U	8.0				BX	N	
1		DATE-STORED-IN	U	8.0				BZ	N	
1		DATE-L-L-B-OUT-DUE	U	8.0				CA	N	
1		DATE-REPAIR-RETURN-DUE	U	8.0				HD	N	
1		DATE-LAST-SERV	U	8.0				CN	N	
1		DELETE-DATE	N	8.0		D		CZ	N	

Using the following command to change the field length:

```

ADADBS CHANGE FILE=190, FIELD=AG, LENGTH=4
ADADBS CHANGE FILE=190, FIELD=AL, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=AM, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=AO, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BC, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BE, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BK, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BL, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BM, LENGTH=6
ADADBS CHANGE FILE=190, FIELD=BN, LENGTH=6
ADADBS CHANGE FILE=190, FIELD=BS, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BT, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BU, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BV, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BW, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BX, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=BZ, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=CA, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=HD, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=CN, LENGTH=8
ADADBS CHANGE FILE=190, FIELD=CZ, LENGTH=8

```

NEMS-MONTH-TRANS

File # 193

Ty	L	Field name	F	Length	Occ	D	U	DB	S
*	-	-----	*	-----	-----	*	*	--	*
1		YEAR-MFG	A	4.0				AG	
1		DATE-NASA-ACQ	U	8.0				AM	
1		DATE-INST-ACQ	U	8.0				AO	
1		DATE-INVENTORIED	U	8.0				BC	N
1		DATE-AVAILABLE	U	8.0				BE	N
1		DATE-LAST-CALIBRATED	U	8.0				BK	N
1		DATE-CALIBRATION-DUE	U	8.0				BL	N
1		DATE-WRNTY-EXP-MATERIAL	U	6.0				BM	N
1		DATE-WRNTY-EXP-LABOR	U	6.0				BN	N
1		DATE-L-L-B-IN-DUE	U	8.0				BS	N
1		DATE-LOANED-OUT	U	8.0				BT	N
1		DATE-LEASED-OUT	U	8.0				BU	N
1		DATE-SHIPPED-OTHER-INST	U	8.0				BV	N
1		DATE-BORROWED-OUT	U	8.0				BW	N
1		DATE-STORAGE-DUE	U	8.0				BX	N
1		DATE-L-L-B-OUT-DUE	U	8.0				CA	N
1		DATE-REPAIR-RETURN-DUE	U	8.0				HD	N
1		DATE-LAST-SERV	U	8.0				CN	N
1		CURRENT-DATE	N	8.0				DB	N

Using the following command to change the field length:

```

ADADBS CHANGE FILE=193, FIELD=AG, LENGTH=4
ADADBS CHANGE FILE=193, FIELD=AM, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=AO, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=BC, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=BE, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=BK, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=BL, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=BM, LENGTH=6
ADADBS CHANGE FILE=193, FIELD=BN, LENGTH=6
ADADBS CHANGE FILE=193, FIELD=BS, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=BT, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=BU, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=BV, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=BW, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=BX, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=CA, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=HD, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=CN, LENGTH=8
ADADBS CHANGE FILE=193, FIELD=DB, LENGTH=8

```

NEMS-PCM-PENDING

File # 197

Ty	L	Field name	F	Length	Occ	D	U	DB	S
* -	-	-----	* -	-----	-----	* *	- -	- -	*
1		PEND-ACTION-DATE	U	8.0		D		AF	N
1		PEND-ACTION-ACC-REJ-DATE	U	8.0				AH	N
1		PEND-DATE-INST-ACQ	U	8.0				BH	
1		PEND-YEAR-MFG	A	4.0				BI	
1		PEND-DATE-INVENTORIED	U	8.0				BJ	N
1		PEND-DATE-BORROWED-OUT	U	8.0				BM	N
1		PEND-DATE-LOANED-OUT	U	8.0				BN	N
1		PEND-DATE-LEASED-OUT	U	8.0				BO	N
1		PEND-DATE-AVAILABLE	U	8.0				BP	N
1		PEND-DATE-L-L-B-OUT-DUE	U	8.0				BQ	N
1		PEND-DATE-L-L-B-IN-DUE	U	8.0				BR	N
1		PEND-DATE-STORED-IN	U	8.0				BS	N
1		PEND-DATE-STORAGE-DUE	U	8.0				BT	N
1		PEND-DATE-SHIPPED-OTHER-INST	U	8.0				BU	N
1		PEND-DATE-LAST-SERV	U	8.0				BV	N
1		PEND-DATE-WRNTY-EXP-MATERIAL	U	6.0				BW	N
1		PEND-DATE-WRNTY-EXP-LABOR	U	6.0				BX	N
1		PEND-DATE-REPAIR-RETURN-DUE	U	8.0				CF	N

Using the following command to change the field length:

```

ADADBS CHANGE FILE=197, FIELD=AF, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=AH, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BH, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BI, LENGTH=4
ADADBS CHANGE FILE=197, FIELD=BJ, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BM, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BN, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BO, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BP, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BQ, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BR, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BS, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BT, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BU, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BV, LENGTH=8
ADADBS CHANGE FILE=197, FIELD=BW, LENGTH=6
ADADBS CHANGE FILE=197, FIELD=BX, LENGTH=6
ADADBS CHANGE FILE=197, FIELD=CF, LENGTH=8

```


NEMS-PCM-AUTH

File # 198

Ty	L	Field name	F	Length	Occ	D	U	DB	S
*-	-	-----	*-	-----	-----	*	*	--	*
	1	AUTH-DATE-SIGN-CHANGED	N	8.0				AK	N

Using the following command to change the field length:

```
ADADBS CHANGE FILE=198,FIELD=AK,LENGTH=8
```

NEMS-REPORTS

File # 194

Ty	L	Field name	F	Length	Occ	D	U	DB	S
*-	-	-----	*-	-----	-----	*	*	--	*
	1	REPORT-EFF-DATE	A	7.0		D		AE	

Using the following command to change the field length:

```
ADADBS CHANGE FILE=194,FIELD=AE,LENGTH=7
```

Delete and rebuild the following file:

NEMS-TRANSFER

File # 196

The NEMS-TRANSFER file must be deleted and rebuilt (ADALOD) empty. The data was unloaded in step 3.0 Pre-Predict Data Conversion and will be reloaded in step 6.0 Post-Predict Data Conversion.

5.0 Catalog Source Code

Programs MSC008P1 and MSD008P5 should replace the ?? with the 2-digit INST-ACCT for your center before running the CATAL in NEMS.

Run a batch job to catalog (CATALL) all modules in the NEMS library using the NASA Batch standard parameters replacing the existing PS and LS with the following values: PS=23 and LS=80. It is not necessary to catalog the Global Data Area (GDA). You should receive 40 NATURAL 0303 errors for modules that begin with RPT* that concern page overflow. To compile these correctly, run another CATALL for the RPT* modules in the NEMS library using the NASA Batch standard parameters. Forty-three programs will produce NATURAL 0002 errors. These errors are to be **IGNORED** because these objects are dynamic. MSX001P1 will only compile for centers that use the NEMS-PROIR-MONTH file. **IGNORE** any errors for program MSC005P1.

"Run a batch job to catalog (CATALL) all modules in the NEMSINV library using the NASA Batch standard parameters. It is not necessary to catalog the Global Data Area (GDA). There should be no errors received.

"Run a batch job to catalog (CATALL) all modules in the NEMSPCM library using the NASA Batch standard parameters. It is not necessary to catalog the Global Data Area (GDA). There should be up to six 0043 errors received. See 9.0 Installation Checklist for instructions on how to correct these errors.

After all objects are compiled, the NEMS application will run under the NASA On-line standard parameter.

6.0 Post-Predict Data Conversion

Run NELXFRPA, in batch from the NEMS library, to reload the NEMS-TRANSFER file. See Sample JCL in Appendix E.

The following programs should be executed, in batch from the NEMS library, to populate the century fields:

- BARCODEC - NEMS-BAR-CODE
- DLYTRNC - NEMS-DAILY-TRANS
- EQUIPMT - NEMS-EQUIPMENT
- GLOBTRNC - NEMS-GLOBL-TRANS
- HISTORYC - NEMS-HISTORY
- INVNTRYC - NEMS-INVENTORY
- INVSTATC - NEMS-INV-STATUS
- MNTHTRNC - NEMS-MONTH-TRANS
- PCMAUTHC - NEMS-PCM-AUTH
- PCMPENDC - NEMS-PCM-PENDING
- REPORTSC - NEMS-REPORTS
- TRANSFRC - NEMS-TRANSFER

7.0 Perform Release-Specific Procedures

7.1 Add Error Messages

The following error messages are new and should be added to NEMS table S02 - Error Codes and Messages Table:

Error

Code Error Message

133	ERROR 133 - DATE OUT FOR REPAIR MUST BE ENTERED
134	ERROR 134 - DATE OUT FOR REPAIR MUST BE 6 POSITIONS NUMERIC
136	ERROR 136 - DATE OUT FOR REPAIR MUST NOT BE LESS THAN DATE INST ACQ
137	ERROR 137 - DATE OUT FOR REPAIR MUST NOT BE GREATER THAN CURRENT DATE
142	ERROR 142 - DATE REPAIR RETURN DUE MUST BE 6 POSITIONS NUMERIC
144	ERROR 144 - DATE REPAIR RETURN DUE MUST BE > OR = CURRENT DATE
202	ERROR 202 - DATE L/L/B IN DUE MUST BE GREATER THAN DATE INST ACQ
203	ERROR 203 - DATE L/L/B OUT DUE MUST BE GREATER THAN OR = DATE INST ACQ
212	ERROR 212 - YEAR MANUFACTURED MUST BE FOUR POSITIONS NUMERIC
213	ERROR 213 - DATE STATUS CODED MUST BE EIGHT POSITIONS NUMERIC
214	ERROR 214 - DATE AVAILABLE MUST BE EIGHT POSITIONS NUMERIC
215	ERROR 215 - DATE LOAN/LEASE IN DUE MUST BE EIGHT POSITIONS NUMERIC
216	ERROR 216 - DATE LOANED MUST BE EIGHT POSITIONS NUMERIC
217	ERROR 217 - DATE LEASED MUST BE EIGHT POSITIONS NUMERIC
218	ERROR 218 - DATE BORROWED MUST BE EIGHT POSITIONS NUMERIC
219	ERROR 219 - DATE LOANED 'YYYY' MUST < OR = CURRENT YEAR
222	ERROR 222 - DATE STATUS CODED MUST BE IN THE FORMAT 'YYYY MM DD'
223	ERROR 223 - DATE AVAILABLE MUST BE IN THE FORMAT 'YYYY MM DD'
224	ERROR 224 - DATE L/L/B IN DUE MUST BE IN THE FORMAT 'YYYY MM DD'
225	ERROR 225 - DATE LOANED MUST BE IN THE FORMAT 'YYYY MM DD'
226	ERROR 226 - DATE LEASED MUST BE IN THE FORMAT 'YYYY MM DD'
227	ERROR 227 - DATE BORROWED MUST BE IN THE FORMAT 'YYYY MM DD'
228	ERROR 229 - DATE LOANED 'YYYY' MUST BE < OR = CURRENT YEAR
229	ERROR 229 - DATE LEASED 'YYYY' MUST BE < OR = CURRENT YEAR
975	ERROR 975 - SEARCH VALUE MUST BE 8 POSITIONS NUMERIC

7.2 Modify Error Messages

The following error messages are old and should be changed on NEMS table S02 - Error Codes and Messages Table:

Error

Code Error Message

461	ERROR 461 - YEAR MANUFACTURED MUST BE < OR = DATE INST ACQ 'YY'
-----	---

483 ERROR 483 - DATE INST ACQUIRED 'YY' MUST BE < OR = CURRENT YEAR
 513 ERROR 513 - DATE AVAILABLE MUST BE < OR = CURRENT YEAR
 529 ERROR 529 - DATE LAST CALIBRATED 'YY' MUST BE < OR = CURRENT YEAR
 536 ERROR 536 - DATE WARRANTY EXP-MATERIALS MUST BE IN THE FORMAT 'YY MM'
 538 ERROR 538 - DATE WARRANTY EXP-MATERIALS MUST BE SIX POSITIONS NUMERIC
 540 ERROR 542 - DATE WARRANTY EXP-LABOR MUST BE SIX POSITIONS NUMERIC
 542 ERROR 540 - DATE WARRANTY EXP-LABOR MUST HAVE THE FORMAT 'YYYY MM'
 578 ERROR 578 - EFFECTIVE DATE MUST BE EIGHT POSITIONS NUMERIC
 579 ERROR 579 - EFFECTIVE DATE MUST BE IN THE FORMAT 'YYYY MM DD'
 614 ERROR 614 - DATE BORROWED 'YY' MUST BE < OR = CURRENT YEAR
 631 ERROR 631 - DATE LEASED 'YY' MUST BE < OR = CURRENT YEAR
 635 ERROR 635 - DATE LOANED 'YY' MUST BE < OR = CURRENT YEAR
 655 ERROR 655 - DATE LAST SERVICED 'YY' MUST BE < OR = CURRENT YEAR
 656 ERROR 656 - DATE LAST SERVICED MUST NOT BE < DATE INST ACQ OF
 666 ERROR 666 - DATE INVENTORIED 'YY' MUST BE < OR = CURRENT YEAR
 690 ERROR 690 - BEGINNING DATE MUST BE EIGHT POSITIONS NUMERIC
 691 ERROR 691 - BEGINNING DATE MUST BE IN THE FORMAT 'YYYY MM DD'
 694 ERROR 694 - ENDING DATE MUST BE EIGHT POSITIONS NUMERIC
 695 ERROR 695 - ENDING DATE MUST BE IN THE FORMAT 'YYYY MM DD'

8.0 Local JCL Mods

Changes are in **bold**:

JCLMSM02100430	M //CMWKF03	DD DUMMY,DCB=BLKSIZE= 600
JCLMSM02100440	M //CMWKF04	DD DSN=MSIRM.NEMS.MNTHTRNS(+1),
JCLMSM02100441	M //	DISP=(NEW,CATLG,DELETE),DCB=(NACCADM.MD,
JCLMSM02100442	M //	RECFM=FB,LRECL= 600 ,BLKSIZE= 6000),UNIT=SYSDA,
JCLMSM02100443	M //	SPACE=(CYL,(1,3))
JCLDD 100470 X X	//CMWKF07	DD DISP=(,DELETE),
JCLDD 100471 X X	//	UNIT=SYSDA,SPACE=(CYL,(1,3)),DCB=RECFM=FB
JCLMSM01100472	M //CMWKF07	DD DISP=(,DELETE),
JCLMSM01100473	M //	DCB=(RECFM=FB,LRECL=140,BLKSIZE=1400),
JCLMSM01100474	M //	UNIT=SYSDA,SPACE=(CYL,(1,1))
JCLMSA02100480	M //CMWKF08	DD DSN=MSIRM.NEMS.HISTDATA(+1),
JCLMSA02100481	M //	DISP=(NEW,CATLG,DELETE),DCB=(NACCADM.MD
JCLMSA02100482	M //	RECFM=FB,LRECL= 928 ,BLKSIZE= 9280),UNIT=SYSDA,
JCLMSA02100483	M //	SPACE=(CYL,(1,3))

IMPORTANT: This is a BETA release for the Y2K modifications. It should be installed into a special Y2K database, NOT your normal test database, nor your production database. This special Y2K database should be pre-loaded with your production library prior to beginning this installation.

9.0 Installation Checklist

- 1.0 Back Up Existing Data
- 2.1 Copy Source Code
- 2.2 List of Source Code Modifications
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
 - 4.1 Data Dictionary Changes
 - 4.1.1 Inventory of Objects
 - 4.1.3 Physical File Changes
- 5.0 Catalog Source Code
 - Update the Password to the NEMS-PCM-AUTH file in PCM programs:
MNUC01P1; RPTSUBP1; TRNC00P1; TRNC26P1; TRNC52P1; TRNUPDP1.
This step is optional if the Center chooses not to put a password on the NEMS-PCM-AUTH file.
 - A. Find out from your DBA the ADABAS Security password assigned to the NEMS-PCM-AUTH file at your Installation.
 - B. Logon to the NEMSPCM and use the Scan utility to search the NEMSPCM programs listed above for the word:
PASSWORD = 'NEMSPCM' and replace it with:
PASSWORD = 'Your site Password'. This scan and replace will change all references to the password, found in the newly released NEMS Release Version 3.9.1 modules, with your Installation's password.
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
 - 7.1 Add Error Messages
 - 7.2 Modify Error Messages
- 8.0 Local JCL Mods

Appendix E - SAMPLE JCL

JCL to unload NEMS-Transfer

```
//IRUNXFR JOB (MSIRMNEMS002,4201),'UNLOAD TRANSFER',CLASS=D,
//          NOTIFY=MSJLV,MSGCLASS=A
//*****
//* CREATES WORKFILE UNLOAD OF NEMS TRANSFER FILE *
//*****
//DVNPDMs EXEC N05Z
//CMPRINT DD SYSOUT=(A,P3103102)
//CMWKF01 DD DSN=MSIRM.NEMSDD.XFER,
//          DISP=(NEW,CATLG,DELETE),
//          UNIT=SYSDA,
//          SPACE=(CYL,(50,25),RLSE),
//          DCB=(RECFM=FB,LRECL=201,BLKSIZE=31959)
//CMSYNIN DD *
NEMAINT,MSJLV
%*
MSJLV
GLOBALS MT=0
NEUXFRPA
FIN
/*
//
```

JCL to reload NEMS-Transfer

```
//IRLDXFR JOB (MSIRMNEMS002,4201),'RELOAD TRTRANSFER',CLASS=D,
//          NOTIFY=MSJLV,MSGCLASS=A
//*****
//* CREATES RELOAD THE NEMS TRANSFER FILE *
//*****
//DVNPDMs EXEC N05Z
//CMPRINT DD SYSOUT=(A,P3103102)
//CMWKF01 DD DSN=MSIRM.NEMSDD.XFER,
//          DISP=(SHR,KEEP,KEEP)
//CMSYNIN DD *
NEMAINT,MSJLV
%*
MSJLV
GLOBALS MT=0
NELXFRPA
FIN
/*
//
```